



verifying rules UML models

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Rule-based specification of behavioral consistency based on the UML meta-model

G Engels, R Heckel, J Küster - «UML» 2001—The Unified Modeling Language. ... - Springer
... ization of the problem), the **model** elements of interest, and the conceptual **rules** which describe ...
should provide both a language for specifying constraints and analysis techniques for **verifying**
them. ... semantic domain is not supposed to provide a semantics of the **UML** in general. ...

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JP Bodeveix, T Millan, C Percebois, C Le Camus, P ... - Model Engineering, ... - Citeseer
... Page 85. 2.4 Some inter-diagram coherence **rules** An **UML model** consists of several
views described using different types of diagrams. **Verifying** the coherence of the **model**
is supposed to address the problem of inter-diagram verification. ...

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[CITATION] Impact analysis and change management of UML models

[psu.edu](#) [PDF]

LC Briand, Y Labiche, L O'sullivan - Software Maintenance, 2003. ICSM 2003. ..., 2003

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Using description logic to maintain consistency between UML models

[umh.ac.be](#) [PDF]

R Van Der Straeten, T Mens, J Simmonds ... - UML 2003-the ..., 2003 - books.google.com
... 4. J.-P. Bodeveix, T. Millan, C. Percebois, CL Camus, P. Bazes, and L. Ferraud. Extending OCL
for **verifying UML model** consistency. ... 8. G. Engels, R. Heckel, and JM Kiister. **Rule**-based
specification of behavioral consistency based on the **UML meta-model**. ...

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Towards automatic translation of UML models into semantic domains

R Heckel, J Küster, G Taentzer - Proc. of APPLIGRAPH Workshop on ..., 2002 - Citeseer
... management when rst choosing a suitable semantic domain, provide a partial mapping into this
domain, and specify as well as **verify** consistency constraints formulated in that domain. Annotated
meta **model rules** can be used to translate elements of **UML models** into the ...

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[PDF] Rule-based detection of inconsistency in UML models

[psu.edu](#) [PDF]

WQ Liu, S Easterbrook, J Mylopoulos - ... on Consistency Problems in UML ..., 2002 - Citeseer
... Page 13. 13 Xlinkit uses an XML-based [4] first-order logic **rule** language in defining consistency **rules** and **verifying** consistency of XML documents, in particular, **UML** design **models** represented in XML [22] format. The **rule** language ...

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A general framework for formalizing UML with formal languages

WE McUmber, BHC Cheng - ... of the 23rd international conference on ..., 2001 - portal.acm.org
... Consequently, methods for modeling and developing embedded systems and rigorously **verifying** behavior before ... Consistency and completeness of the **rules** are addressed by basing the diagram ... estab- lished between the metamodels of the semi-formal (source), **UML** and the ...

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[PDF] Tool support for verifying UML activity diagrams

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R Eshuis, R Wieringa - IEEE Transactions on Software Engineering, 2004 - Citeseer
Page 1. Tool Support for **Verifying UML** Activity Diagrams Rik Eshuis and Roel Wieringa ... We define requirement-preserving **rules** for state space reduction. ... Activity diagrams are part of **UML**, the de facto industry standard for modeling software designs. ...

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Model-driven architecture

[colostate.edu](#) [PDF]

S Mellor, K Scott, A Uhl, D Weise - Advances in Object-Oriented ..., 2002 - Springer
... However, this implementation isn't necessarily required as long as one can **verify** any manually conducted mapping against the specification ... a **UML model** of a Java application to a corresponding Java source code **model** would have **rules** such as "A **UML** classifier maps to ...

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The UML as a formal modeling notation

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A Evans, R France, K Lano, B Rumpe - The Unified Modeling Language.«UML»' ... - Springer
... The semantic **model** is to be used as the basis for a set of diagrammatical transformation **rules**, which enable formal deductions to be made about **UML** diagrams. A small example shows how these **rules** can be used to **verify** whether one class diagram is a valid deduction of ...

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